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Protein (N × 6.25) 32.6	
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Calories per ounce 40	
Sedium Chloride !!.!	
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Calcium as Ca 0.098	
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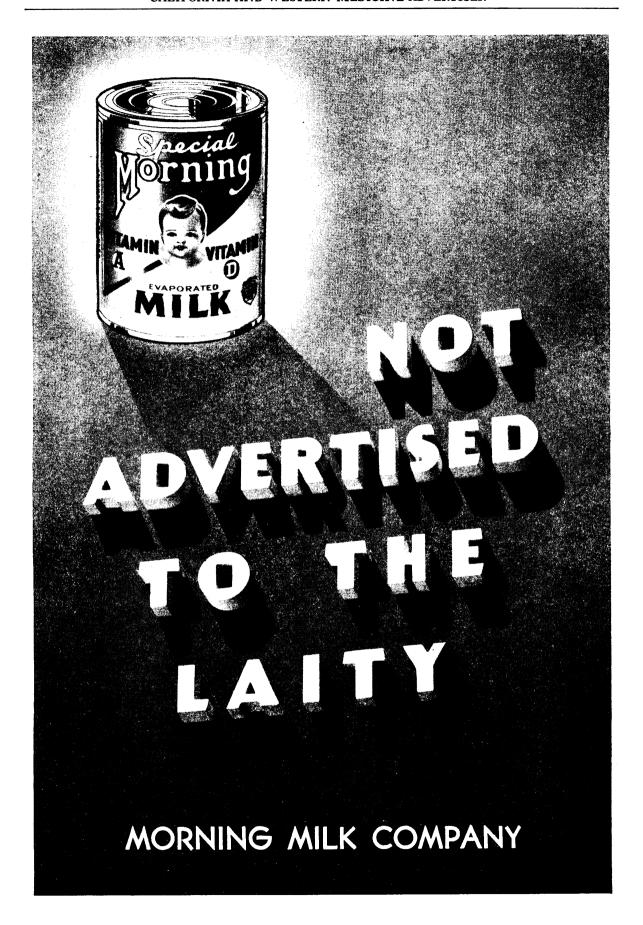
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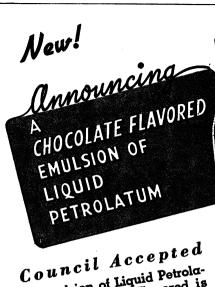
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City	State

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Accepted

is promptly relieved by

GYNERGEN

brand of ergotamine tartrate



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DOSAGE: 0.5 cc. intramuscularly as early as possible. In resistant cases, the dosage may be increased up to 1 cc. In mild attacks 2 to 6 tablets often prove effective.

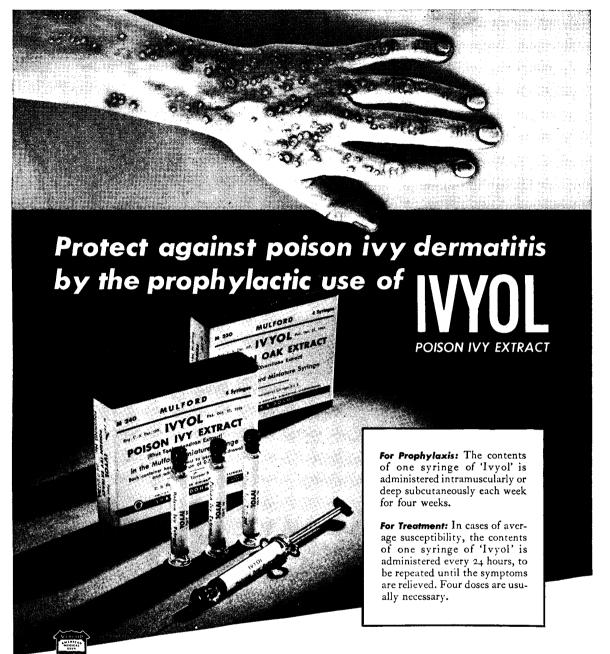
Ampules, 0.5 cc.: Boxes of 6, 50, 100. Ampules, 1 cc.: Boxes of 6, 12, 50, 100. Tαblets: Bottles of 15, 100, 500. Solution: Bottles of 15 cc. and 100 cc.

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With the onset of warm weather, the physician finds satisfaction in the knowledge that there are available the reliable 'Ivyol' preparations, for prophylactic and therapeutic measures in combating the dermatitis caused by poison ivy or poison oak.

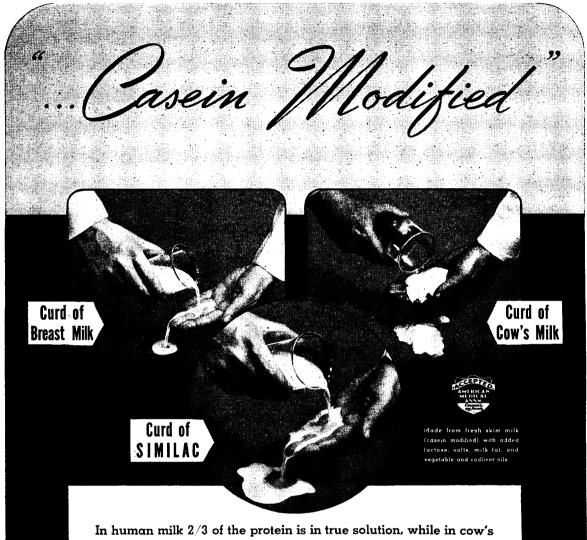
'Ivyol' is supplied in two forms— 'Ivyol' (Poison Ivy Extract) and 'Ivyol' (Poison Oak Extract). They are solutions of the active principles derived from poison ivy and poison oak respectively, in sterile olive-oil with 2% camphor as a preservative. Because of its olive-oil base, the administration of 'Ivyol' by deep subcutaneous or intramuscular injection is comparatively free from pain.

'Ivyol' is available in packages of one and four miniature syringes. Each syringe represents a single dose.



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In human milk 2/3 of the protein is in true solution, while in cow's milk only 1/6 of the protein is soluble. During the process employed in preparing Similac the soluble proteins in cow's milk are increased to a point approximating the soluble proteins in human milk. How greatly this improves the digestibility is indicated by a comparison of the curd (insoluble calcium paracaseinate) formed by cow's milk, with the soft flocculent curd of Similac. The softer the curd the shorter the digestive period.* Similac, like breast milk, has a consistently zero curd tension.

* Espe & Dye — "Effect of Curd Tension on the Digestibility of milk" — Amer. Journal Diseases of Children — 1932, Vol. 43, p. 62.

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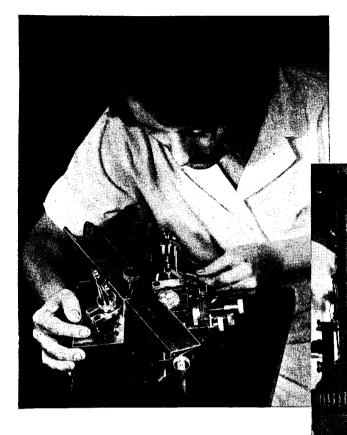
Chemotherapy is still in its infancy. The secrets sealed in the endocrines and biological substances challenge the scientist to uncover them. The synthesis of drugs is an ever tempting invitation to search for perfection.

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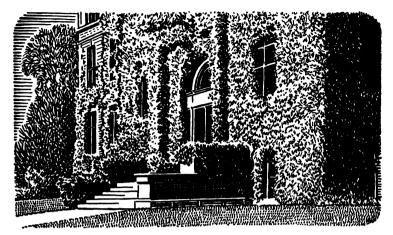
Aided by modern precision equipment, often specially devised and constructed, these men and women work, unhampered by commercial considerations, to aid medicine in its altruistic purpose, by improving existing therapeutic substances, by discovering new ones, and by enlarging our knowledge of them.

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You can't start building half-way up

Hroductive research is like

building with brick—one fact or one experience is laid on top of another. The soundness of research accomplishment depends on the foundation underneath. You can't start building half-way up.

Parke-Davis contributions to modern medicine are familiar—among them are Adrenalin, Pituitrin, Pitocin and Pitressin, Mapharsen, Meningococcus Antitoxin. Each represents a single research project. Yet all are mortared together in a broad foundation of scientific understanding and experience. Every future Parke-Davis development will stand soundly on this structure.

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No need to worry about cod liver oil when the feeding is S.M.A. Vitamins A, B_1 and D are provided in S.M.A., in adequate amounts to meet the nutritional needs of normal, full-term infants.

Diluted, ready to feed, each quart of S.M.A. provides 7500 U.S.P. units vitamin A, 400 U.S.P. units vitamin D and 200 U.S.P. units vitamin B_1 .

S. M. A. IS ECONOMICAL TO FEED. INFANTS RELISH IT, DIGEST IT EASILY AND THRIVE ON IT.

S. M. A. is a food for infants—derived from tuberculin-tested cow's milk, the fat of which is replaced by animal and vegetable fats including biologically tested cod liver oil; with the addition of milk sugar and potassium chloride;



altogether forming an antirachitic food. When diluted according to directions, it is essentially similar to human milk in percentages of protein, fat, carbohydrate and ash, in chemical constants of the fat and physical properties.

S. M. A. CORPORATION - 8100 MCCORMICK BOULEVARD - CHICAGO, ILLINOIS

Fulfilling the essentials of effective liver therapy —

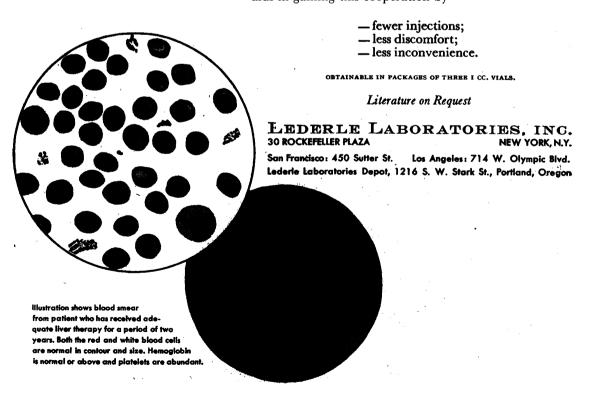
1cc. CONCENTRATED SOLUTION LIVER EXTRACT (PARENTERAL)

Lederle

Since individual patients with Pernicious Anemia vary one from another and from time to time in the amount of liver extract needed, no dogmatic statements can be made as to dosage. Every patient should receive at least enough of the material to maintain a normal blood picture. "Lederle's icc." extract usually meets such requirements when injected at intervals of 7 to 15 or more days.

For the successful treatment of severe neurologic involvement much more extract is indicated than is required for the maintenance of normal blood. An excess of liver is useful to the extent that it may be stored in the body reservoirs and drawn upon as needed.

Neurological complications and relapse need not develop once the patient's cooperation is gained. Lederle's 1 cc. concentrated solution liver extract, containing 15 USP units, aids in gaining this cooperation by





what d'you mean — portable!

FEATHERWEIGHT—no! A good portable x-ray unit is still quite a way off from the size and weight of a little camera. Dependable performance calls for plenty of power and solid strength.

HEAVYWEIGHT-

no! Excess poundage and a bewildering confusion of parts are definitely a thing of the past. A real portable shouldn't need a truck or a trailer, or a structural engineer to put it together and take it apart.



What we really have in mind is the Westinghouse Portable D. Mechanically it is amply sturdy for easy, accurate positioning without getting the jitters. Electrically it is so powerful that it competes with many a stationary diagnostic apparatus. Yet it weighs little enough that it can be carried about with comfort—and of course it is compact to fit very nicely into your car.

Certainly, we'd like to demonstrate it to you. If you'll mail the coupon your Westinghouse representative will be more than glad to arrange for it, at your convenience and without obligation.

Westinghouse X-Ray Co. Long Island City, N. Y.

Westinghouse X-Ray Company 21-16 43rd Avenue Long Island City, New York

Please tell your representative to check with me for a convenient time to demonstrate your new Portable D diagnostic X-Ray unit.

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STUDIES IN THE AVITAMINOSES

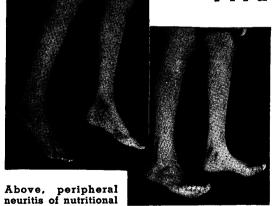


This page is the fifth of a series on vitamin deficiencies presented by the research division of The Upjohn Company because of the profession's widespread interest in the subject. A full color, twopage insert on the same subject appears in the April 27 issue of The Journal of the American Medical Association.

ONE of the specific lesions resulting from thiamin deprivation consists of degenerative changes in the myelin sheaths of nerve fibers. In peripheral nerves, the myelin breaks down into small globules and finally disappears, and the axis-cylinder undergoes atrophy and fragmentation. Degeneration has been described also in the spinal cord, especially in the posterior columns and anterior and posterior nerve roots, and in the posterior spinal ganglions and the anterior horn cells.



The Neurologic Manifestations of Vitamin B, Deficiency



etiology; note limited

dorsiflexion. At right, improvement in dorsiflexion after two and one-half weeks of thiamin chloride therapy. (Courtesy of Henry Field, Jr., M.D., University of Michigan.)

THE early manifestations of vitamin B₁ deficiency affecting peripheral nerves are pain and burning along the involved sensory neurons and impairment of motor nerve function. If the deficiency remains uncorrected, fragmentation of the axis-cylinders of motor nerves follows, leading to further loss of function and atrophy of the innervated muscles. Administration of thiamin chloride over a prolonged period slowly produces regeneration of the involved neurons. If complete degeneration of cells and axis-cylinders

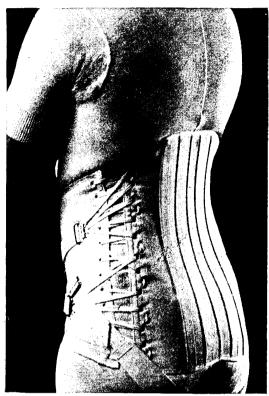
in the central nervous system has occurred, regeneration cannot take place.

SUPPORT WITH BRACE FOR THE LOW BACK

Commenting on the increased likelihood of patients with spondylolisthesis lesions to suffer from industrial low back injury and on the pathology and symptoms of such injuries, an orthopedic surgeon* in a recent article continues, as follows: "... one begins by putting the patient to bed for anywhere from a few days to two weeks. Physiotherapy is used to give relief from pain and to strengthen the muscles of the back. Sometimes it is well to assure rest to the injured back by immobilization in a plaster jacket. When the patient gets out of bed one must provide him with a low back belt if the symptoms have been mild, or with a spinal brace if rigid support is needed. If, in spite of prolonged conservative treatment, the pain and weakness in the back and the disability continue, one must realize that permanent internal fixation is required."



CAMP SPINAL BRACE



CAMP LUMBOSACRAL SUPPORT

The Camp spinal brace (illustrated) is made of spring steel and comes in varying lengths; twelve, fourteen, sixteen and eighteen inch lengths.

According to the surgeon's preference, the brace may be used to extend over the curved lumbar spine in a straight manner or may be fashioned to fit the curve of the spine.

The brace may be incorporated in any of the Camp side-lacing, orthopedic supports.

*Samuel Kleinberg, M.D. New York State Journal of Medicine Volume 39, September 15, 1939

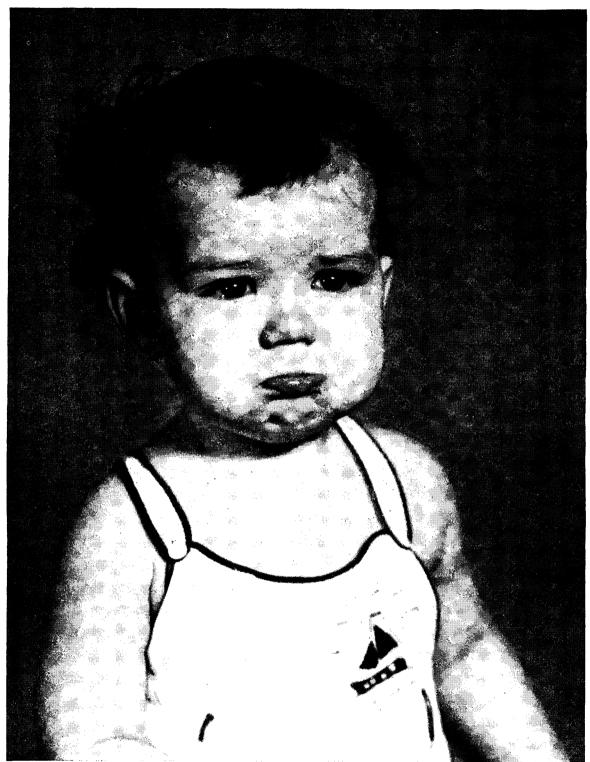






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World's largest manufacturers of surgical supports



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*Bibliography on request. Mead Johnson & Company, Evansville, Indiana, U.S.A.



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Now Goes 28 Times Further

● Since April 1, the diabetic can buy as much Iletin (Insulin, Lilly) for 3.5 cents as he purchased in 1923 for \$1.00. Thirteen reductions in the price of Iletin (Insulin, Lilly) have resulted from large-scale production and improvement in marketing facilities.

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The VACOLITER

A Container-Dispenser with 10 Distinctive Advantages

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Exclusive, 5-unit, TAMPER-PROOF closure...diaphragm gives positive proof of vacuum

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Permanently attached band and bail originated by Baxter — make Vacoliter more convenient Calibration molded in the glass

In removing seal, operator is prompted to check vacuum and type of solution

Pear-shaped orifices hold dispensing equipment firmly

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Air tube insulates solution against contact with incoming air Parenteral Solutions must be instantly available — so conveniently and dependably contained that delay or contamination can not occur. As a pioneer and leader in the field, Baxter has developed in the distinctive VACOLITER, with its exclusive visible index of vacuum, a container that renders hospital, physician and nurse a completely satisfactory service.

Baxter's Parenteral Dextrose and Saline Solutions are pure, uniform, stable—SAFE—and available everywhere in wide variety. To the hospital, they represent the utmost in true economy. Descriptive bulletin on request.

In the highly perfected TRANS-FUSO-VAC* container and its accessories, Baxter has given the profession a widely accepted new technique of indirect BLOOD TRANSFUSION that bridges time and space with unbroken asepsis. With it one operator can perform the entire sequence -Drawing, Citrating, Transporting, Storing, Filtering and Infusionwith no break in asepsis and no waste of blood. On request, professional bulletin discussing the ease. certainty and economy of this new technique of blood transfusion.

The TRANSFUSO-VAC

A complete closed technique for Blood Transfusion

Six sizes and solution types available, identified by batch and inspection reference on label

Solution is sterile and pyrogen-free 2½% sodium citrate in physiological solution of sodium chloride*

Container embodies original, exclusive features of Vacoliter, with others of importance

Second label provides for record of contents in use



Vacuum provided will draw desired quantity of blood and leave adequate vacuum, visibly proved by dimple in diaphragm

Tamper-proof cap indicates 250, 500 or 750 cc. use

X clearly identifies site for insertion of needle

Micrometer-fitted Valve gives finger-tip control of blood flow Stainless steel Filterdrip prevents passage of blood clots

Tube and Needle Sets adapt Transfuso-Vac to varying needs

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VITAMIN K-A NEW FAT-SOLUBLE VITAMIN

• In 1935, the existence of a new fatsoluble vitamin—distinct from vitamins A, D, and E—was demonstrated. A deficiency of this vitamin in the diet of chicks was found to lead to a disease characterized by anemia, hemorrhages, and prolonged clotting time of the blood (1). The name of this new factor was derived from the Danish designation "Koagulations-Vitamin".

The chemical, physical, and biological properties of vitamin K have been well established (1, 2, 3, 4). Besides vitamins K_1 and K_2 —isolated from natural materials—an homologous series of synthetic compounds has been found to possess antihemorrhagic properties. As the vitamin K unit, the antihemorrhagic activity of 1.0 microgram of pure 2-methyl-1, 4-napthoquinone has been suggested; however, further research seems necessary before final selection of the vitamin K unit is made (4).

Clinical investigations have also established the importance of vitamin K in the clotting of human blood (3, 4). It has been demonstrated that avitaminosis K results in a prothrombin deficiency, with resultant prolonged blood clotting time. Al-

though hypoprothrombinemia can frequently be attributed to inadequate intestinal absorption of vitamin K or to hepatic injury, other causative factors are also recognized; important among these is a deficiency of vitamin K in the diet.

The distribution of vitamin K in foods also has been studied. It has been found that vitamin K activity appears to be concentrated in the photosynthetic portion of the plant (3). Research during the next several years should add greatly to our knowledge of the extent to which this factor occurs in common American foods.

Discovery of vitamin K is another step towards establishment of the complete nutritive requirements of man. Recognition of this new factor, however, suggests that other factors—as yet unknown—will undoubtedly be found essential to man. Consequently, the wisdom of a varied diet to supply the identified, as well as the unidentified, essential nutrients, should be immediately evident. The large number of canned foods, available at all seasons, may well be included in diets designed to promote optimum nutrition.

AMERICAN CAN COMPANY

230 Park Avenue, New York, N. Y.

REFERENCES

1. 1937. Annual Review of Biochemistry, 6, 364.

2. 1939. Ibid., 8, 428.

3. 1939. J. Am. Med. Assoc., 112, 1457.

4. 1939. Ibid., 113, 2056.

We want to make this series valuable to you, so we ask your help. Will you tell us on a post card addressed to the American Can Company, New York, N. Y., what phases of canned foods knowledge are of greatest interest to you? Your suggestions will determine the subject matter of future articles. This is the fifty-ninth in a series, which summarizes, for your convenience, the conclusions about canned foods reached by authorities in nutritional research.



The Seal of Acceptance denotes that the statements in this advertisement are acceptable to the Council on Foods of the American Medical Association.

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In Depressive States

Our recent publication, "Benzedrine Sulfate Tablets in Depressive Conditions"— examined and found acceptable by the Council on Pharmacy and Chemistry of the American Medical Association—summarizes the findings of leading investigators as to the present status of the drug in this field. Excerpts are cited from the articles listed below:

Guttmann, E. and Sargant, W.: Observations on Benzedrine—Brit. Mcd. J., 1:1013, May 15, 1937.

Nathanson, M. H.: The Central Action of Beta-aminopropylbenzene (Benzedrine)—J.A.M.A., 108:528, Feb. 13, 1937.

Myerson, A.: Effect of Benzedrine Sulfate on Mood and Fatigue in Normal and in Neurotic Persons—Arch. Neurol. & Psychiat., 36:816, Oct., 1936.

Wilbur, D. L.; MacLean, A. R. and Allen, E. V.: Clinical Observations on the Effects of Benzedrine Sulphate—Proc. Staff Meet. Mayo Clin., 12:97, Feb. 17, 1937.

Woolley, L. F.: The Clinical Effects of Benzedrine Sulphate in Mental Patients with Retarded Activity—Psychiatric Quart., 12:66, January, 1938.

Davidoff, E. and Reifenstein, E. C., Jr.: The Stimulating Action of Benzedrine Sulfate—J.A.M.A., 108:1770, May 22, 1937.

Guttmann, E.: The Effect of Benzedrine on Depressive States—J. Ment. Sci., 82:618, Sept., 1936.

If you did not receive a copy, we shall be glad to mail one to you.

BENZEDRINE SULFATE TABLETS

Bach Benzedrine Sulfate Tablet' contains amphetamine sulfate, S. K. F., 10 mg. (approximately 1/6 gr.)

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Name	····	
Street		



America's fastest-growing infant food now costs mothers much less

THANKS TO YOU, DOCTOR, the demand for Biolac has grown so that it is now possible to announce a 17% price reduction in California on this liquid, modified milk. Biolac is now available to your mothers at only 19ϕ a can instead of 23ϕ , as formerly.

Biolac is a selected cow's milk, adjusted not only to resemble the nutritional properties of breast milk, but to compensate for the biological differences between cow's milk and breast milk.

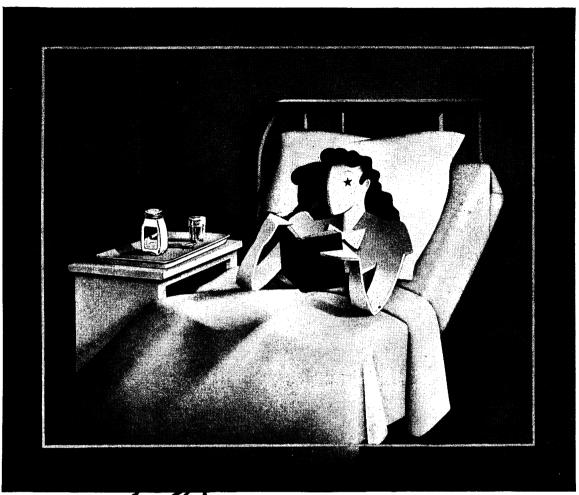
Thus, Biolac has a reduced-fat, higher-

protein level, and contains lactose in Nature's own equilibrium of 60% beta, 40% alpha lactose. Vitamins A, B₁, D, and iron are provided at accepted prophylactic levels.

Biolac assures a sterile formula—even including carbohydrates—as it requires only simple dilution with boiled water. The simplicity and ease with which Biolac formulas can be prepared is a godsend to busy, distracted mothers, minimizes formula errors. It is sold only in drug stores. No feeding directions are given to the laity.

Biolac A PRODUCT OF THE BORDEN COMPANY





Fost Operatively... **Petrolagar



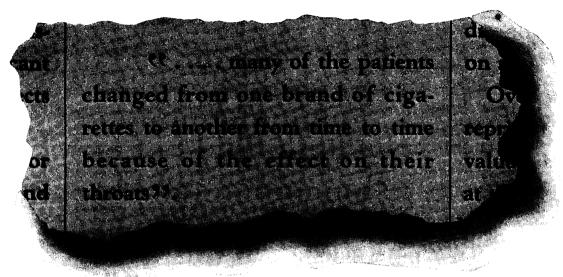
The mild action of Petrolagar helps relieve bowel distension after surgery and aids in the restoration of normal Bowel Habit Time.

For physicians' convenience, Petrolagar is available in the economical Hospital Dispensing Unit-a quantity sufficient for the average ten day period of confinement. It is pleasant to take-not likely to leak like plain mineral oil.

Prescribe Petrolagar for hospitalized patients. It contributes to their comfort.



Petrolagar . . . liquid petrolatum 65 cc. emulsified with 0.4 Gm. agar in a menstruum to make 100 cc.



Laryngoscope, Feb. 1935 Vol. XLV, No. 2, 149-154

ON GUIDING PATIENTS IN THEIR CIGARETTE SMOKING

It is certainly worth knowing that tests reported in the same paper showed every case of irritation of the nose and throat due to smoking cleared completely or definitely improved when smokers changed to Philip Morris.

Write for reprints of published studies on the comparative irritant properties of cigarettes. Address Philip Morris & Co., Ltd., Inc., 119 Fifth Avenue, New York.

Karo Formulas for Safe Weaning

Karo . . 2 tsps.

Milk . . 6 ozs.

Water . . 2 ozs.

This is a formula for gradual weaning. The KARO mixture is first offered in place of one breast feeding for a week, then in place of two breast feedings the next week until complete weaning.

Karo . 3 tblsps.

Milk . . 24 ozs.

Water . . 8 ozs.

This is a formula for *immediate weaning*. The KARO mixture is divided into 4 feedings, 8 ounces each, at 4-hour intervals, and gradually concentrated as the baby becomes adjusted to bottle feeding.



Inquiries from Physicians are invited ... for further information write

CORN PRODUCTS SALES COMPANY
17 BATTERY PLACE · NEW YORK CITY